

LISTING OF CLAIMS

This listing of the claims will replace all prior versions and listings of claims in the application:

1. (original) An emission treatment system for treatment of an exhaust stream comprising NOx and particulate matter, the emission treatment system comprising:

a) an oxidation catalyst;

b) an injector in fluid communication with and downstream of the oxidation catalyst, wherein the injector periodically meters ammonia or an ammonia precursor into the exhaust stream; and

c) a wall flow monolith in fluid communication with and downstream of the injector, wherein the wall flow monolith has a plurality of longitudinally extending passages formed by longitudinally extending walls bounding and defining said passages, wherein the passages comprise inlet passages having an open inlet end and a closed outlet end, and outlet passages having a closed inlet end and an open outlet end,

wherein the wall flow monolith comprises an SCR catalyst composition that permeates the walls at a concentration of at least 1.3 g/in^3 ; wherein the wall flow monolith has a wall porosity of at least 50% with an average pore size of at least 5 microns.

2. (original) The emission treatment system of claim 1, wherein the SCR catalyst composition that permeates the walls of the wall flow monolith so that the walls have a wall porosity of from 50 to 75% with an average pore size of from 5 to 30 microns.

3. (original) The emission treatment system of claim 1, wherein the SCR catalyst composition comprises a zeolite and base metal component selected from one or more of a copper and iron component.

4. (original) The emission treatment system of claim 3, wherein the base metal component is a copper component.

5. (original) The emission treatment system of claim 4, wherein the zeolite of the SCR catalyst composition has a silica to alumina ratio of at least about 10.

6. (original) The emission treatment system of claim 5, wherein the zeolite of the SCR catalyst composition is a beta zeolite.

7. (original) The emission treatment system of claim 1, wherein there is from 1.6 to 2.4 g/in³ of SCR catalyst composition disposed on the wall flow monolith.

8. (original) The emission treatment system of claim 1, wherein the oxidation catalyst comprises a platinum group metal component.

9. (original) The emission treatment system of claim 8, wherein the oxidation catalyst further comprises a zeolite component.

10. (original) The emission treatment system of claim 1, further comprising a diesel engine upstream of, and in fluid communication with the oxidation catalyst.

11. (original) The emission treatment system of claim 1, wherein the oxidation catalyst is disposed on a honeycomb flow through monolith substrate or an open cell foam substrate.

12-24. (cancelled)

25. (new) The emission treatment system of claim 1, wherein the injector comprises an aqueous urea reservoir and a pump.

26. (new) The emission treatment system of claim 1, wherein the injector comprises gaseous nitrogen based reagent.

27. (new) The emission treatment system of claim 1, wherein the inlet passages of the wall flow monolith are coated with the SCR catalyst.

28. (new) The emission treatment system of claim 27, wherein the inlet passages and the outlet passages are coated with the SCR catalyst.